Subject: List of Contractors

Date: Fri, 6 Aug 1999 11:45:17 -0400

From: "Conroy, David (David)" <dconroy@lucent.com>

To: jonjones@acboe.org

on.

he following contractors have Master Construction Agreements with Lucent echnologies and are presently working on the Atlantic City project.

liver Communications Group, Inc. 457 Old York Road ordentown, NJ 08505

ricomm Services Corporation 1 Beverly Rancocas Road illingboro, NJ 08046

astern Utility Service, Inc. 5 Main Street roveville, NJ 08857

:lanticom 27 Rt. 206 Suite 16B amilton, NJ 08610

iburban Cable
)0 Cresson Boulevard
) Box 989
iks, PA 19456

MICRO TECHNOLOGY GROUP Atlantic City Wire Proposal:

Scope of Work





Final Mile Technologies

Specializing in Network Planing and Design, Fiber Optics, Data & Voice Cabling for Networks

Who Is Final Mile Technologies?

Final Mile Technologies is a full services telecommunications company based in Southeastern Pennsylvania specializing in Fiber Optic, Voice and Data Communications. We provide expert data construction cabling and also staff several systems engineers. Our staff possesses the leading industry certifications resulting in actual "turn key" business solutions for your network. Good and reliable cable installers should consider your voice and data requirements in tandem. This approach coupled with a working knowledge of your LAN, WAN and PBX systems gives us the edge in providing your business with the highest services and solutions.

Mission

To enhance the competitive advantage of our clients through the strategic planning and design of their data construction cabling system. We recognize that if one end user is standing alone then the whole company may be too. Building your company's data cabling system resulting in seamless network connectivity forms a partnership that translates in to mutual and residual benefits. Making your company the best makes us the best!

Prepared By: Qasim Rashad Final Mile Technologies © 1502 Cathaine Street UBSC Suite 201 Phila., PA 19146 Phone (215) 985-9420 Ext 35

PROJECT SCOPE

MTG has requested a project proposal for FMT to provide estimates for the project planning and installation of data cabling for their client, Atlantic City School District. Note, as a subcontractor to the Primary (MTG) this Assignment Agreement is based on MTG being awarded the contract. FMT will report all work related issues to MTG. FMT will provide Project Management, Technical Services and premise wiring resources for this assignment.

Specifically, FMT will provide complete horizontal data cabling to six elementary schools and upgrade four high schools. In the elementary schools because of the older construction wire molding and raceway will be implemented. There will be a total of one thousand eight hundred fifty (1,850) drops in the following areas:

CAT5e	Drops
New Jersey	25C 🦔
Ohio	25C
Indiana	25C
Richmond	25C
Brighton	25C
Texas	25Ç
Uptown	100
Venice Park	75
MLK	10C 1

On the first floor of each location panels and enclosures in an MDF additional floor will have an IDF Each IDF will terminate into a seven-

10C FMT will assemble and install patch
75 (Main Distribution Frame). Each
1,850 (Intermediated Distribution Frame).
foot enclosure with a fan, power

strip, Plexiglas door, removable side panel, vented rear door, and castors or levelers. In the IDF, FMT will install a series of 48-port patch panel devices with wire management bars. The IDF will be connected to the MDF (Main Distribution Frame) via a six-strand riser rated multi mode fiber backbone or CAT5e copper. All cabling will be in accordance with ANSI/EIA/TIA 568 A standards. FMT will install and/or provide the following hardware configuration:

Chelsea Heights

Total

- > Forty (40) AMP 48-port port patch panels
- Thirty (30) seven foot enclosure
- One thousand eight hundred fifty (1,850) Category 5e drops in locations as designated by MTG
- One thousand eight hundred fifty (1,850) Category 5e RJ45 jacks
- 5 6-strand multimode fiber or high speed copper back bones in locations designated by MTG
- Testing, labeling and certification

RESPONSIBILITIES

FMT

- Provide project management and technical services
- > Install neat and orderly cable paths
- Policing and clean up of all work areas
- Report to client any possible critical system failures

ACSD:

- > Physical access to facilities and hardware
- > Necessary security clearance
- Sufficient work space to perform job tasks
- Single point of contact

DELIVERABLES

- → Data cabling to designated areas located in Atlantic City School District
- Wire management and patch panel
- Troject management and technical expertise
- Testing, Labeling and Certification
- ⇒ Status Reports

ASSUMPTIONS

- FMT employees will be provided workspace including access to a phone.
- ACSD recognizes the change order process required to alter the scope of the original project.
- Atlantic City School District provides corporate access to all facilities as related to this proposal.

PROJECT STAFFING

Final Mile Technologies will provide the services of:

- Operations Manager: The certified installation of complete systems solutions
- Project Manager: For design and configuration of complete systems solutions, daily status reports, single point of contact
- Data Cabling Technician(s)

	Schools	<i>;</i>		Costs
	Elementary Schoupgraded)	ools (not		\$336,000
Upgraded Schools		\$39,200		
Enclosures		\$67,200		•
Total		\$442,400.00	•	·

Note, upgraded schools refer to: MLK, Uptown Complex, Chelsea Heights. Not upgraded refer to New Jersey, Ohio, Indiana, Richmond Avenue, Brighton Avenue, Texas and Venice Park.

You can add or delete the number of network drops based upon the per drop price listed below.

The per drop price for the upgraded schools is \$168.00

The per drop price for the schools that have not been upgraded is \$224.00. This includes using wire mold and race way.

Standards

Cabling Installation Manual 1st edition, © 1997 BICSI • Background Information

ANSI/TIA/EIA publishes standards for the manufacturing, installation, and performance of electronic and telecommunications equipment and systems. Five of these ANSI/TIA/EIA standards govern telecommunications cabling in buildings. Each standard covers a specific part of building cabling. They address the required cable, hardware, equipment, design and installation practices. In addition, each ANSI/TIA/EIA standard lists related standards and other reference materials that deal with the same topics. Most of the standards MTGlude sections, which define important terms, acronyms, and symbols. The five ANSI/TIA/EIA standards, which govern telecommunications cabling in buildings, are:

- ANSI/TIA/EIA-568-A, Commercial Building Telecommunications Cabling Standard
- ANSI/EIA/TIA-569, Commercial Building Standard for Telecommunications Pathways and Spaces
- ANSI/EIA/TIA-570, Residential and Light Commercial Telecommunications Wiring Standard
- ANSI/TIA/EIA-606, Administration Standard for the Telecommunications Infrastructure of Commercial Buildings
- ANSI/TIA/EIA-607, Commercial Building Grounding and Bonding Requirements for Telecommunications

Attach mont 3

Erate Contract

Contract # Y1-00100AC

This contract is based on the funding commitment from Schools and Library Division (SLD) of the Universal Service Administrative Company (USAC). The commitment made here is contingent on the school entity being approved for funding by the receipt of a Funding Commitment Decision Letter from the USAC for the requested amount. If funding is reduced, the school has the option of reducing the scope of the contract accordingly. If, for any reason, funding is denied, this agreement would then be not and void.

MTG requires the school to file their Form 486 as soon as possible after Erate approval is granted. MTG will not process any orders until the SLD approves the 486 and notifies MTG that the 486 has been processed.

MTG will notify the achool when the 486 is processed to begin the order process. MTG requires a valid school purchase order and a deposit before any products or services are delivered.

nmduc	cts or services that are not paid by USAC and/or SLD upon receipt of an invoice from M	TG must be naid by t	the school
			$I \rightarrow I$
Form	678310000481953	YH5 -	throught district
		1 113	Mondon Chizille
ase ched K.	ck the following products and services the school wishes to submit for E-rate approval: Description	Unit Price	Extended Price Check Here:
	HENTS/WARRANTIES	WHILE LANS	PURETURNAL TIME MINISTERNAL
N Mai	intenance Agreement	5315 }	27286
47 E-1043	1.477 al	in ch	FIDES
Oty.	Description (1) 4	551 > 0	Extended Price
1	LAN Maintenance Agreement for 650 on-site hours on All Erate Eligible Servers, Switches, Wireless Access points, UPS units, Back up Drives.	•	\$ 74,750.00
		22	
Aanda	ed Warranties for Existing Equipment		" " " " " " " " " " " " " " " " " " "
كالاللتدو	CISCO		
Otv.	Description	Unit Price	Extended Price
12		\$ 8,320.0	0 \$ 99,840.00
82	One Year Smartnet Maintenance 8x5xNext Business Day on the 6509 One Year Smartnet Maintenance 8x5xNext Business Day on the 4346	\$ 728.0	0 \$ 59,696.00
	•		
Qty.	Description	Unit Price	Extended Price
	Note - the school has two Watchguard Firebox 4500 Firewall units, which	ere eligible	
_	under Erate Year 7. The hurdware warranty and software support for one	i Keel in consted.	
2	Watchguard Extended Warranty 1 Year Express for Firebox 4500 - Hardware	\$ 530.0 \$ 1.150.0	1
2	Watchguard Extended Warranty 1 Yearr Express for Firebox 4500 - Software	\$ 2,250.0	,0 \$ 2,500.00 <u></u>
•			
t			
dasbs	ment		7 3 601
			162,896.
YBX			, , , , , , ,
YBX VId	deo Equipment All products listed below are eRate eligible. School will need to purchase non-eligi	this mandriche erreb so	TVe VC9e
		ine hindams somi Es	t ast acres
	and carneras.		
Lara er	e 6 PVBX systems and related accessories in the pricing listed below.		<i>11</i> 5 €
	ere 165 nodes requested in the bid documents.		7 7 .
.20			- · · · · · · · · · · · · · · · · · · ·
Øty.	Description	<u>Unit Price</u>	
6	32x32 PVBX Switch	\$ 33,575.1	
	Video Modulator Pair	\$ 170.0	
192	Video Modulator Supply	\$ 255.0	
_		\$ 850.0	00 \$ 5,100.00 X
192	Rack System		
192 192		\$ 298.	00 \$ 5,364.00 X
192 192 6	Rack System Agile Modulator Back up UPS APC 2200 RM3U	\$ 298. \$ 964.	00 \$ 5,364.00 X
192 192 6 18	Rack System Agile Modulator	\$ 298.	00 \$ 5,364.00 X
192 192 6 18 6	Rack System Agile Modulator Back up UPS APC 2200 RM3U	\$ 298. \$ 964.	00 \$ 5,364.00 X
192 192 6 18 6	Rack System Agile Modulator Back up UPS APC 2200 RM3U Complete Installation of the PVBX System by Certified MTG Engineers	\$ 298. \$ 964.	00 \$ 5,364.00 X 00 \$ 5,784.00 X 00 \$ 21,000.00 X
192 192 6 18 6	Rack System Agile Modulator Back up UPS APC 2200 RM3U Complete Installation of the PVBX System by Certified MTG Engineers	\$ 298. \$ 964.	00 \$ 5,364.00 X

LAN CABLING AND ELECTRONICS

A Charles

PHackment 3

Wireless LAN for 106 areas

Qtv.	Description We understand there are 106 areas to be covered with Access points. We highly recomm Configuration Study to determine the best locations of the Access points. This will maxim	end	8		anded Price	
106	Cisco Alronet 802.1G Access point	\$	659.00	\$	69,854.00	
212		\$	14.30	•	3,031.60	
	2 antennas are required for each access point.	•		•		
106	Cisco Smartnet Maintenance - One Year for Wireless Access point	\$	56.75	\$	6,015,50	
106/	Installation Services by our Authorized Cisco Systems Engineer	\$	250.00	\$	26,500.00	
	This installation includes the configuration charge by MTG to determine the best location and configuration of the Wireless Access points. This will maximize the effectiveness of the wireless equipment.					
.K Wire	less Connection					
1	Wireless connection to the modulars for MLK	\$	11,995.00	\$	11,995.00	
	This includes: 5 Wireless base units, five antennas, mounting equipment.					
4	Clsco Catalyst 3750 12 SFP Standard Multilayer Image WS-C3750G-12S-5	\$	5,475.00		21,900.00	
4	Cisco Smartnet Level 8 8x5xNext Business Day - One Year	\$	595.00		2,380.00	
4	APC SmartUPS PowerStack 250 rack mount UPS	\$	190.00		760.00	
1	Installation Note – this is only for the wireless connection to the 4 modulars. It does not include the cabling requested within the modular units. Note – the wiring bidder must provide a deep cabinet in order house the switch, in addition to the wiring patch panel.	UP	s,	\$	6,000.00	
-Port S	witches					
Oty.			t Price		ended Price	
8	Catalyst 3750 48 10/100 + 4 SFP Standard Multilayer Image		4,795.00		38,360.00	
8	GE SFP, LC connector SX transceiver	\$	350.00	•	2,800.00	
1	Installation by our Cisco Certified Engineer			\$	5,000.00	
	re do not feel they are needed by the district.					
wipme	nt Rack - Oty. 2	۷n	it Price	£xt	ended Price	
eriene: Oty.	nt Rack - Oty. 2 Description		it. Price · 1,666.00		1,666.00	
Qty. 2	nt Rack - Oty. 2 Description APC Netshelter VX Base Enclosure Rack			\$	1,666.00 61.00	
Qty. 2 2 2	nt Rack - Oty. 2 Description APC Notshelter VX Base Enclosure Rack APC Blanking panel kit		1,666.00	\$ \$	1,666.00 61.00 308.00	
Qiy. 2 2 2 2 2	nt Rack - Oty. 2 Description APC Netshelter VX Base Enclosure Rack APC Blanking panel kit APC Roof fan trey	\$	1,666.00 61.00	\$ \$ \$	1,666.00 61.00 308.00 1,902.00	
Oty. 2 2 2 2 2 2	nt Rack - Oty. 2 Description APC Netshelter VX Base Enclosure Rack APC Blanking panel kit APC Roof fan trey APC Rack mount LCD Monitor/keyboard drawer	\$	1,666.00 61.00 308.00	\$ \$ \$	1,666.00 61.00 308.00 1,902.00	
Oty. 2 2 2 2 2 2 2	Description APC Netshelter VX Base Enclosure Rack APC Blanking panel kit APC Roof fan trey APC Rack mount LCD Monitor/keyboard drawer Beildn Omniview 8 port KVM switch	\$	1,666.00 61.00 308.00 1,902.00	\$ \$ \$ \$	1,666.00 61.00 308.00 1,902.00 329.00	
Oty. 2 2 2 2 2 2 2 2 2 2	Description APC Notshelter VX Base Enclosure Rack APC Blanking panel kit APC Roof fan trey APC Rack mount LCD Monitor/keyboard drawer Belldn Omniview 8 port KVM switch Belldn 10 foot PS2 KVM cable set	\$	1,666.00 61.00 308.00 1,902.00 329.00	\$ \$ \$ \$	1,666.00 61.00 308.00 1,902.00 329.00	
Oty. 2 2 2 2 2 2 2	Description APC Netshelter VX Base Enclosure Rack APC Blanking panel kit APC Roof fan trey APC Rack mount LCD Monitor/keyboard drawer Beildn Omniview 8 port KVM switch	* * * * *	1,656.00 61.00 308.00 1,902.00 329.00 44.00	\$ \$ \$ \$	1,666.00 61.00 308.00 1,902.00 329.00	
Oty. 2 2 2 2 2 2 2 2 2 2	Description APC Netshelter VX Base Enclosure Rack APC Blanking panel kit APC Roof fan trey APC Rack mount LCD Monitor/keyboard drawer Belkin Omniview 8 port KVM switch Belkin 10 foot PS2 KVM cable set Installation of 2 APC racks and associated equipment by our APC -trainedEngineer NOTE: This UPS requires a 120 V 30 amp twist lock plug. This is not Erate eligit Please consult with your electrician for the installation of that plug.	\$ \$ \$ \$ \$ ble	1,666.00 61.00 308.00 1,902.00 329.00 44.00	\$ \$ \$ \$ \$	1,656.00 61.00 308.00 1,902.00 329.00 176.00	
Otv. 2 2 2 2 2 16 2 PS - Qt	Description APC Netshelter VX Base Enclosure Rack APC Blanking panel kit APC Roof fan trey APC Rack mount LCD Monitor/keyboard drawer Belkin Omniview 8 port KVM switch Belkin 10 foot PS2 KVM cable set Installation of 2 APC racks and associated equipment by our APC -trainedEngineer NOTE: This UPS requires a 120 V 30 amp twist lock plug. This is not Erate eligit Please consult with your electrician for the installation of that plug.	\$ \$ \$ \$ \$ ble	1,666.00 61.00 308.00 1,902.00 329.00 44.00	* * * * *	1,666.00 61.00 308.00 1,902.00 329.00 176.00	
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Atter Chancerof

NON ERATE ELIGIBLE

Since the district is looking at implementing wireless on a large scale, we recommend a wireless study for each building.

I do not believe this is Erate eligible, but defer to the expertise of the districts' Erate consultant.

Q1y.

Description

Building -wide Wireless Site Survey

Total Price Unit Price 1,500.00 13,500.00

As an Authorized Agent of Atlantic City Schools, we Accept this proposal

Signature of Authorized Agent

Signature of Authorized Agent of MICRO Technology Groupe, Inc.

Please check where applicable, sign, date, and fax to:

MICRO Technology Groupe 311A Old Rodgers Road Bristol, PA 19007 FAX: 877-329-9684

6 x 1" Hot Pluggable Hard Drive Bays Qty. 3 36.4G8 Pluggable Ultra320 SCSI 10,000 rpm Universal Hard Drive (1") 1.44NB Floppy Disk Drive 48X CD-ROM drive Compaq NC7781 PCE-X Gigabit NIC (embedded) 10/100/1000 WOL (Wake on LAN). Hot Plug Redundant Power Supply 225075-001 Hot Plug Redundant Fan 225073-821 SmartStart & Insight Manager Integrated Lights-Out (ILO) Management (ASIC on motherboard) Warranty - 3 year Next Business Day Onsite -30,000.00 _ Installation of DNS/DHCP Servers 2,500.00 \$ 12 2,088.00 ____ 12 / Microsoft Server 2003 Academic License, SA 174.00 \$ **MTG Recommendation**

The district currently has a Microsoft Exchange Server. We feel this is a suitable server to handle the district Email. It is our recommendation the district purchase 3 Web servers and 4 DNS/DHCP Servers for a total of 7 servers.

Tapa BackUP Units

es. See that pricing below. We have made a recommendation, see that at the end.

Ott	Description	u	nit Price	1	otal Price	
12	HP Storageworks SOLT 220 3U Rack-mount, One drive 274331-B21	\$	4,654.00	\$	\$5,848.00	
12	LVD SCSI cable 168048-B21	š		š	1,884.00	
12	Rack kit 280571-001	*	170.00	\$	2,040.00	
ck UP Se	*					
12	Back UP Exec, Academic with One year Naintenance	\$	508.00	•	6,096.00	
25	Back Up Exec, Academic Server Agent with One year Naintenance	š	148.00		3,700.00	
25	Back UP Exec, Academic Exchange Agents with One year Maintenance	š	620.00		15,500.00	
	Back Up Exec, Agent for Open File with One year Maintenance	ś	559.00		6,708.00	
12	DECK UP EXACT, Adeats for Obest Life Justs Out April Literatures of Co.	•	333.00	•		
12	Installation of Back up Drive with Software	\$	1,000.00	\$	12,000.00	
TG Rec	ommendation					
	We recommend getting two HP Storageworks MSL6030 tape libraries.					
ty.	Description	Link	Price	Pate	nded Price	
	HP Storageworks MSL6030 2 drive LTP Ultrium 460 rackmount library - 330731-823	\$	24,786.00	*	49,572.00	
2	SCSI cables	\$	82.00		164.00 _	
2	Back UP Exec. Academic with One year Naintenance		508	\$	1,016.00 _	
5	Back Up Exec, Academic Server Agent with One year Haintenance	\$	148,00	\$	740.00	
ī	Back UP Exec. Academic Exchange Agents with One year Maintenance	\$	620.00	\$	620.00	
2	Back Up Exec, Agent for Open File with One year Maintenance	\$	559.00	\$	1,118.00	
2	NTG Installation	\$	2,500.00	\$	5,000.00	
-	NOTE - quantity of beckup software listed above is based on our recommendation	on of 7 se	TVIANE.			
ba Follos	viso la sot Erute elicibie					
	ring le not Erute eligible Description		LPrice	Edu	anded Price	
ty.	Description				3,890.00	··
		Y nk	LPrice	\$	nded Price 3,890.00 _ 1,620.00 _	
10	Description HP magazine - 301902-B21	Y nk	LPrice 369,00	\$	3,890.00	
10 20	Description HP megazine - 301902-821 HP 400 GB Uirlum data cartridge	<u>Unit</u> \$ \$	LPrice 369,00	\$	3,890.00	
10 20 20	Description HP magazine - 301902-821 HP 400 GB Uirlum data cartridge Note - this is for 12 PVEX units. You can scale the quantities accordingly.	<u>Uni</u> : \$ \$	t Price 369,00 81.00 Smit Price Unit Price		3,890.00 _ 1,620.00 _	
10 20	Description HP megazine - 301902-B21 HP 400 GB Ulrium data cartridge Note - this is for 12 PVEX units. You can scale the quantities accordingly. Description	<u>Uni</u> : \$ \$	### Price ### 1.00 ### 1.00 ### 1.00 ### 1.00 ### 1.00 ### 1.00 #### 1.00 #### 1.00 #### 1.00 #### 1.00 #### 1.00 #### 1.00 #### 1.00 ##### 1.00 ##### 1.00 ##################################	\$ \$	3,890.00 _ 1,620.00 _	×
10 20 20 VBX	Description HP megazine - 301902-B21 HP 400 GB Ulrium data cartridge Note - this is for 12 PVEX units. You can scale the quantities accordingly. Description	<u>Unit</u> \$ \$ \$	# Price 369,00 81.00 # 1.00 # 1.00 # 1.00 # 1.00 # 1.00	\$ \$ \$	3,890.00	
10 20 20 VBX SYL 28SYL 12	Description HP magazine - 301902-B21 HP 400 GB Ulrium data cartridge Note - this is for 12 PVBX units. You can scale the quantities accordingly. Description Description 32x32 PVBX Switch Video Modulator Pair	<u>Uni</u> : \$ \$	E Price 369,00 81.00 81.00 Unit Price 33,575.00 170.00 255.00	\$ \$ \$ \$ \$ \$ \$	3,890.00	× × ×
10 20 20 YBX SX. SX. SSY. 12 384 384	Description HP magazine - 301902-B21 HP 400 GB Ulrium data cartridge Note - this is for 12 PVEX units. You can scale the quantities accordingly. Description Description 32:32 PVEX Switch Video Modulator Pair Video Modulator Supply	<u>Unit</u> \$ \$ \$ \$ \$	E-Prices 369,00 81.00 81.00 8/mit Prices 33,575.00 170.00 255.00 850.00	\$ \$ \$ \$ \$ \$ \$ \$	3,890.00 _ 1,620.00 _ 01,620.00 _ 01,620.00 _ 05,280.00 _ 97,920.00 _ 10,200.00 _	× × ×
10 20 20 493X 52. 253x. 12 384	Description HP magazine - 301902-B21 HP 400 GB Ulrium data cartridge Note - this is for 12 PVBX units. You can scale the quantities accordingly. Description Description 32x32 PVBX Switch Video Modulator Pair	<u>Unit</u> \$ \$ \$ \$	EPrice 369,00 81.00 81.00 8/mit Price 33,575.00 170.00 255.00 850.00 298.00	***	3,890.00 _ 1,620.00 _ 1,620.00 _	× × × × × × × × × × × × × × × × × × ×
10 20 20 20 20 20 20 20 20 21 21 384 384 384 12 36	Description HP regazine - 301902-B21 HP 400 GB Uirlum data certridge Note - this is for 12 PVEX units. You can scale the quantities accordingly. Description Description 32:x32 PVBX Switch Video Modulator Pair Video Modulator Supply Rack System Agile Modulator	<u>Unit</u> \$ \$ \$ \$ \$	Unit Price 359,00 81.00 81.00 Unit Price 33,575.00 170.00 255.00 850.00 296.00	***	3,890.00 _ 1,620.00 _ 1,620.00 _ 1,620.00 _ 1,620.00 _ 10,720.00 _ 10,728.00 _ 11,568.00 _ 1,568.00	× × × × ×
10 20 20 VBX VL 12 384 12	Description HP megazine - 301902-B21 HP 400 GB Ulrium data cartridge Note - this is for 12 PVEX units. You can scale the quantities accordingly. Description Description 32x32 PVBX Switch Video Modulator Pair Video Modulator Supply Rack System	<u>Unit</u> \$ \$ \$ \$	EPrice 369,00 81.00 81.00 8/mit Price 33,575.00 170.00 255.00 850.00 298.00	***	3,890.00 _ 1,620.00 _ 1,620.00 _	× × × × × × × × × × × × × × × × × × ×
20 20 20 20 20 20 20 20 20 21 22 38 38 4 12 36 12 12	Description HP magazine - 301902-B21 HP 400 GB Ulrium data cartridge Note - this is for 12 PVEX units. You can scale the quantities accordingly. Description Description 32x32 PVEX Switch Video Modulator Pair Video Modulator Supply Rack System Agile Modulator Back up UPS APC 2200 RM3U Complete Installation of the PVBX System by Certified MTG Engineers	<u>Unit</u> \$ \$ \$ \$	Unit Price 359,00 81.00 81.00 Unit Price 33,575.00 170.00 255.00 850.00 296.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,890.00 _ 1,620.00 _ 1,620.00 _ 1,620.00 _ 1,620.00 _ 102.00 _ 10,720.00 _ 11,568.00 _ 42,000.00 _ 1	× × × × × × ×
20 20 20 20 20 20 20 20 20 21 2 384 12 36 12 36 12	Description HP magazine - 301902-B21 HP 400 GB Ulrium data cartridge Note - this is for 12 PVEX units. You can scale the quantities accordingly. Description Description 32:32 PVBX Switch Video Modulator Pair Video Modulator Supply Rack System Agite Modulator Back up UPS APC 2200 RM3U	<u>Unit</u> \$ \$ \$ \$	Unit Price 359,00 81.00 81.00 Unit Price 33,575.00 170.00 255.00 850.00 296.00	***	3,890.00 _ 1,620.00 _ 1,620.00 _ 1,620.00 _ 1,620.00 _ 10,720.00 _ 10,728.00 _ 11,568.00 _ 1,568.00	× × × × × × ×

Firewall Server/Router - 12

We do not recommend the district purchase any additional firewall servers or routers. The appropriate equipment is currently in place in the district.

AHachmord 3

LAN CABLING AND ELECTRONICS

Wireless LAN = 20 Arem	. (44	Nodes)
------------------------	-------	--------

Wireless LAN	= 20 Areas (40 Nodes)					
Ωtγ ₄	Description), in it	Price	Exter	ided Price	
444	We understand there are 20 areas to be covered with Access points. We highly recommend Configuration Study to determine the best locations of the Access points. This will maximize	a k wireless o	overage.			
	Configuration study is included in our install price below.					
40	Cisco Aironet 802.1G Access point	\$	659.00	\$	26,360.00	
40 80 /	Clean 2 2 Ghi dipole Antenna	\$	14.30	Þ	1,144.00	
30 /	t naturate are required for each access point.	\$	\$6.75	\$	2,270,00	8
40	Class Construct Maintenance - One Year for Wireless Access point	Š		\$	18,000.00	X
40	Installation Services by our Authorized Cisco Systems Engineer This installation includes the configuration charge by HTG to determine	•				
	This installation includes the computation of the Wireless Access points. This will maximize					
	the effectiveness of the wireless equipment.					
Windows	Network Interface Cards					
ALII ALANA	The Form 470 request 50 wireless cards. You can get entire Form the first representation of the first representati					
	desistop computers with a PCI story. We have priced 30 to both. If the SLD deems the card is eligible, however at less than 100%, the school is responsible	for 100%	of the inelig	ible		
	portion, plus 10% of the eligible portion.		ik Price		otal Price	
Qty.	Description	341	HK FIRE		<u> </u>	
PCI Network	Interface cards	\$	233.00	\$	11,650.00	
50	Ciero PCI Network Interface cards	\$	250.00	\$	12,500.00	
50	Installation of 50 Wireless Network cards				7 x.9236	\$ 9,04500
une . Oh	u 49					v 7 ·
UPS - Qt	7• 4 .4.	u	nit Price	נ	otal Price	.
Qty.	Description	\$	1,325.00	\$	15,900.00	~
12	American Power Conversion SmartUPS 3000Va	\$	615,00	\$	7,380.00 3,000.00	
12 12	APC Bettery Pack Installation	\$	250.00	\$	3,000.00	
1.2	The second secon	10.				
	Please consult with your electricien for the installation of that plug.					
						-
Ecciona	ant Rack - Oty. 12					
Colorin	· · · · · · · · · · · · · · · · · · ·	Unit	Price	Exte	nded Price	14
Qty.	Description.	*	1,656.00		1,666.00	
12	APC Netshelter VX Base Enclosure Rack	\$	51.00		61.00 <u> </u>	
12	APC Blanking panel kit APC Roof fan trey	ş	308.00 1,902.00		1,902.00	
· 12	APC Rack mount LCD Montter/keyboard drawer	•	329.00		329.00	
12	Refid Criniview 8 port KVM switch	. \$	44.0		176.00	
96		\$	1,000.0	9 \$	176.00 _	X
12	Baildn 10 foot PSZ KVFI cause see Installation of 12 APC racks and associated equipment by our APC -brainedEngineer					
LAN EK	ectronics ·			_	ctended Price	
	Description		<u>Unit Prica</u> 6,495.0		77,940.00	
<u>Qty.</u> 12	Cat agog Chassis, 9 slot, 15RU, No Pow Supply, No Part 1789	•	6,650.0		75,350.00	
11	Catalyst 6000 8-port GE, Enhanced QoS (Red. GolCs)	inc	fuded	•	•	•
12	BAYE DIAVE CRLY THISERT, CAT 5500	\$	36.0		1,292.00	
34	Catalyst 6000 Blank Line Card Slot Cover	\$	15,100.0	0 \$	226,500.00	
15	Catalyst 6500 Supervisor Engine-2, 2 GB, plus MSFC-2/PFC-2 Catalyst 6500 16-port Glg/Copper Module, x-bar Catalyst 6500 16-port Glg/Copper Module, x-bar	\$	11,595.0		139,140.00	
12	A A A A A A A A A A A A A A A A A A A			10 \$ 10 \$		
120 24	COORDERS Short Wavelength GBIC (multimode only)	•	2.075.			
24	Consider 6000 2500W AC POWER SUPPLY	š		90 \$		
12	Catalust 6000 Fan Tray for 9-5lot Systems	š	20.	\$ 00	480.00	
24	AC ACMUSE CORD MORTH AMERIZ (110V)		cluded			
12	Catalyst 6000 Sup 2 Flash Image W/SSH, Rel 8.1		cluded			
15	Catalyst 6000 MSPC2-IOS SERVICE PROVIDER W/VIP		cluded	^^ -	¥3 750.00	
15	C-4-bart 6 500 46-port 10/100, RJ-45, X-P87	\$	1,250.	,,,	•	
35	A LALLA PAGA MEDE-9 MAM 178MR DRAM COGGR	•	cluded 4,795.	00 s	393,190.00	
15 82	Catalogs 3750 48 10/100 + 4 SFF Standard Printing at Miney	\$	*	00 \$	4 050 00	
3	CHE SEP. LC CONNECTOR SX transcarver		cluded	. •		
82	an des detens COCH Chadring Cibia	\$	13,750.	.00 \$	41,250.00	
3	Cultivat 6500 16-port GldE Mod: Fabric-Enabled (Req. Golds)	\$.00 \$		
40	GE SEP, LC connector SX transcalver	•				
	or Smartnet Maintenance One Year Smartnet Maintenance 8x5xNext Business Day on the 6509			.00 \$		
12	One Year Smartner Maintenance Systems Business Day on the 3750	\$	728	,00 \$, 55,000,00	
67	CUR 1881 SHELDISK LANDSCORPED AND LANDSCORPED					0077775

Attachmond. 3

1	Installation of the Claco equipment listed above by our Claco Certified Engineeer			1	\$	74,000.00 _	
Recomme	inded Addition to the Proposal					20.000.00	
1	Design and Engineering Study This will assess the network needs of the district which will allow for the proper deployment of Erate equipment. This includes mapping of network electronics and servers purchased under the Erate program.				\$	20,000.00	
NOTE - Ere	to Eligibility of a Design and Engineering Studyit In previous years, Design and Engineer studies were Erate eligible. I do not believe it is all to the expertise of the Erate consultant hired by the district.	igible in	Yest	7, but del	ler		
Non Erat	e Eligible equipment:					4.40.	
24 30 12	Description 5 pack of SDLT Media Cleaning cartridges APC SNMP card for Smartups 3000Va (Allow for graceful shut down of servers during power outages.	\$ \$ \$	<u>Unit</u>	Prica 561.00 78.00 250.00	\$	ended Prisa 13,464.00 2,340.00 3,000.00	
	orized Agent of Atlantic CRY Schools, we Accept this proposal		, <u></u> -		-		1-22-09
	of Authorized Agent of MICRO Technology Groups, Inc.				-	•	1-9-04 Date
Please ch MICRO Te 31 IA Old Bristol, PA	neck where applicable, sign, date, and fex to: chnology Groupe Rodgers Road	ł				• ·	

MICRO Technology Groupe, Inc.

a division of MAC Technology Groupe, Inc.

Suite H 3580 Progress Drive Bensalem, PA 19020

215.245.8144

Fax 215.245.5116

www.mtgroupe.com

Affachma

January 30, 2003

Mr. Martin Friedman 442 Lyndhurst Drive Broomall, PA 19008

Dear Mr. Freidman,

MICRO Technology Groupe, Inc. (MTG) is pleased to submit this comprehensive proposal for the Atlantic City Board of Education Year 6 E-rate application.

We have proposed a solution for internal connections. This includes: cabling, network electronics, servers, and video. It also includes installation costs, maintenance agreements, and engineering costs.

We have used hardware from Cisco Systems and Compaq (HP) for the servers and network electronics. As you are aware, Cisco and Compaq are widely recognized as leaders in the technology industry.

We have configured the servers as per the bid specifications.

We feel the wiring in many of the schools should be replaced. We are not willing to provide any LAN Enhancements using the existing wiring in those schools. We have provided prices to rewire (or add wiring) to the buildings. There is a per drop price for a cable run which will allow you to make any add/deletes to the number of runs that we propose.

We understand the district has two-pair fiber optic cable from each school building to the Dr. Martin Luther King School Complex. We propose to use this fiber as the districts' Wide Area Network links. We propose two Cisco Catalyst 6509 switches to provide redundant WAN connection.

Further, we propose Cisco Catalyst 6506 switches in each school building with Cisco Catalyst 2950 stackable switches in the various network closets.

Please be aware there are a few issues the district must address. They include providing adequate environmental conditions in the wiring closets and providing proper electrical power in the buildings. We do not believe these services are eligible under Year 6 of the E-rate grogram. MTG can provide the names of companies who offer such services.

MTG has been providing technology solutions to schools and businesses since 1989. We offer the highest quality of support on both the Windows and Macintosh platforms. We understand the district uses a mix of Windows and Mac OS computers. We believe we can partner with the district to become a reliable and valued Systems Integrator.

We would appreciate to speak with you and the district regarding our complete proposal. I can be reached at (877) 366-3684 ext. 385. Please be aware, we recently moved our company headquarters to 311A Old Rodgers Road, Bristol, PA 19007. We can be reached on the web at www.mtgroupe.com.

Thank you for your time and courtesy.

Regards,

Richard D. Linkchors Account Executive Ata Chmart

MICRO TECHNOLOGY GROUP Atlantic City Wire Proposal:

Scope of Work



Final Mile Technologies

Specializing in Network Planing and Design, Fiber Optics, Data & Voice Cabling for Networks

Who Is Final Mile Technologies?

Final Mile Technologies is a full services telecommunications company based in Southeastern Pennsylvania specializing in Fiber Optic, Voice and Data Communications. We provide expert data construction cabling and also staff several systems engineers. Our staff possesses the leading industry certifications resulting in actual "turn key" business solutions for your network. Good and reliable cable installers should consider your voice and data requirements in tandem. This approach coupled with a working knowledge of your LAN, WAN and PBX systems gives us the edge in providing your business with the highest services and solutions.

Mission

To enhance the competitive advantage of our clients through the strategic planning and design of their data construction cabling system. We recognize that if one end user is standing alone then the whole company may be too. Building your company's data cabling system resulting in seamless network connectivity forms a partnership that translates in to mutual and residual benefits. Making your company the best makes us the best!

Prepared By. Qasim Rashad. Final Mile Technologies © 1502 Cathaine Street UBSC Suite 201 Phila., PA 19146 Phone (215) 985-9420 Ext 35



MTG has requested a project proposal for FMT to provide estimates for the project planning and installation of data cabling for their client, Atlantic City School District. Note, as a subcontractor to the Primary (MTG) this Assignment Agreement is based on MTG being awarded the contract. FMT will report all work related issues to MTG. FMT will provide Project Management, Technical Services and premise wiring resources for this assignment.

Specifically, FMT will provide complete horizontal data cabling to six elementary schools and upgrade four high schools. In the elementary schools because of the older construction wire molding and raceway will be implemented. There will be a total of one thousand eight hundred fifty (1,850) drops in the following areas:

	` ' -	
CAT5e	· · . · · ·	Drops
New Jersey		25C
Ohio	•	25C
Indiana		250
Richmond	1.11	250
Brighton		250
Texas		25C
Uptown		10C
Venice Park		75
MLK		100

On the first floor of each location panels and enclosures in an MDF additional floor will have an IDF Each IDF will terminate into a seven-

10C FMT will assemble and install patch
75 (Main Distribution Frame). Each
1,850 (Intermediated Distribution Frame).
foot enclosure with a fan, power

strip, Plexiglas door, removable side panel, vented rear door, and castors or levelers. In the IDF, FMT will install a series of 48-port patch panel devices with wire management bars. The IDF will be connected to the MDF (Main Distribution Frame) via a six-strand riser rated multi mode fiber backbone or CAT5e copper. All cabling will be in accordance with ANSI/EIA/TIA 568 A standards. FMT will install and/or provide the following hardware configuration:

Chelsea Heights

Total

- Torty (40) AMP 48-port port patch panels
- Thirty (30) seven foot enclosure
- One thousand eight hundred fifty (1,850) Category 5e drops in locations as designated by MTG
- One thousand eight hundred fifty (1,850) Category 5e RJ45 jacks
- 🤝 6-strand multimode fiber or high speed copper back bones in locations designated by MTG
- Testing, labeling and certification



RESPONSIBILITIES

FMT

- > Provide project management and technical services
- " Install neat and orderly cable paths
- Policing and clean up of all work areas
- Report to client any possible critical system failures

ACSD:

- Physical access to facilities and hardware
- The Necessary security clearance
- Sufficient work space to perform job tasks
- " Single point of contact

DELIVERABLES

- Data cabling to designated areas located in Atlantic City School District
- wire management and patch panel
- Project management and technical expertise
- Testing, Labeling and Certification
- ⇒ Status Reports

Assumptions

- TMT employees will be provided workspace including access to a phone.
- ACSD recognizes the change order process required to alter the scope of the original project.
- Atlantic City School District provides corporate access to all facilities as related to this proposal.



PROJECT STAFFING

Final Mile Technologies will provide the services of:

- Operations Manager: The certified installation of complete systems solutions
- Project Manager: For design and configuration of complete systems solutions, daily status reports, single point of contact
- Data Cabling Technician(s)

	Schools		Costs
	Elementary Schools (ne upgraded)	ot	\$336,000
Upgraded Schools		\$39,200	
Enclosures		\$67,200	
Total		442,400.00	

Note, upgraded schools refer to: MLK, Uptown Complex, Chelsea Heights. Not upgraded refer to New Jersey, Ohio, Indiana, Richmond Avenue, Brighton Avenue, Texas and Venice Park.

You can add or delete the number of network drops based upon the per drop price listed below.

The per drop price for the upgraded schools is \$168.00

The per drop price for the schools that have not been upgraded is \$224.00. This includes using wire mold and race way.

JANUARY 27, 2003

Standards
Cabling Installation Manual 1st edition, © 1997 BICSI •
Background Information

ANSI/TIA/EIA publishes standards for the manufacturing, installation, and performance of electronic and telecommunications equipment and systems. Five of these ANSI/TIA/EIA standards govern telecommunications cabling in buildings. Each standard covers a specific part of building cabling. They address the required cable, hardware, equipment, design and installation practices. In addition, each ANSI/TIA/EIA standard lists related standards and other reference materials that deal with the same topics. Most of the standards MTGlude sections, which define important terms, acronyms, and symbols. The five ANSI/TIA/EIA standards, which govern telecommunications cabling in buildings, are:

- ANSI/TIA/EIA-568-A, Commercial Building Telecommunications Cabling Standard
- ANSI/EIA/TIA-569, Commercial Building Standard for Telecommunications Pathways and Spaces
- ANSI/EIA/TIA-570, Residential and Light Commercial Telecommunications Wiring Standard
- ANSI/TIA/EIA-606, Administration Standard for the Telecommunications Infrastructure of Commercial Buildings
- ANSI/TIA/EIA-607, Commercial Building Grounding and Bonding Requirements for Telecommunications

PAGE 5

Exhibit J

A-Harlinsont





2658 N.W. Boulevard • Vineland, New Jersey 08360 • Office: (856) 691-5111 • Fax: (856)

January 7, 2004

Atlantic City Board of Education 1809 Pacific Ave Atlantic City, NJ 08041

Re:

SLD470-526880000481973

Internal Cabling

Attention

Alamar Consulting

Dear Martin:

Attached you will find an overview for the scope of work requested for the 470. ComTec Systems is submitting the cost for Internal Cabling as mentioned on the bid. We have reviewed the schools and have looked in depth at the request for work to be performed. Included as part of our proposals for all cabling projects are a number of issues that ComTec has taken into consideration when bidding for this work. These are very important items for the long term benefit of the Atlantic City School District and are in addition to those items requested in the formal bid package..

Goals

Clean up

- Move all cabling into secure power poles or conduits that were running on floors
- Run new cables to main IDF or MDF for any areas that were not home-run
- Replace all copper backbone cables with fiber to connect IDF locations to MDF
- Install all Fiber interface modules in cabinets

Security

• Replacement of all racks and cabinets which are not in at least 18 inch deep and 24 inches in height.

omTec Systems Inc

Vineland, NJ 08360 USA

Phone: (856) 691-5111 Fax: (856) 696-4666

Quo

No.

301

Date:

1/9/20

Prepared for

Atlantic City Board of Education Administration Building 1809 Pacific Ave Atlantic City, NJ 08401 U.S.A.

Prepared by Michael Verto

Account No. 2829

Account Phone: (609) 343-7200

					
City.	Item ID	ItemDescription	UOM	Sell	Tot
1	805008	INTERNAL CABLING	EA	562,000,000	\$562,000.(
	470# 526880000481973			,	

Hadnet

Item Total:

\$ 562,000.00

Total: \$562,000.00

Prices are firm until 1/23/2004

Quoted by: Michael Vertolli

Date: 1/9/2004

THIS CONTRACT IS BASED ON THE DISTRICT RECEIVING A FUNDING COMMITMENT LETTER FROM THE SLD OF THE THE UNIVERSAL SERVICE ADMINISTRATIVE COMAPNY FOR THE REQUESTED AMOUNT.

Accepted by:

444 IMMAN

Date: 1-22-04

If equipment is itemized above and does not include labor than ComTec will bill customer for all labor charges associated with its installation at ComTec prevailing rates. If this quote is a Change Order to an Installation, customer is bound by terms agreed upon in the Equipment Purchase Agreement. Any additional materials approved for installation by the customer which are not listed will be billed as Material used. If quote exceeds \$500.00 a 50% deposit may be required before proceeding with installation. Additional installments may also apply. Customer will sign for time spent on site upon completion of all projects. All equipment remains the property of ComTec Systems, Inc until paid in full

Afachani



2658 N.W. Boulevard • Vineland, New Jersey 08360 • Office: (856) 691-5111 • Fax: (856)

January 7, 2004

Atlantic City Board of Education 1809 Pacific Ave Atlantic City, NJ 08041

Re:

470#'678310000481953

Wire and Cable Maintenance

Attention

Alamar Consulting

Dear Martin:

Attached you will find an overview for the scope of work requested for the 470. ComTec Systems is submitting the cost for Wire and Cable Maintenance. This includes:

- Data and connectivity
- Troubleshooting carrier issues
- Consulting
- Line trouble and circuit troubles
- Design and engineering
- Carrier delegation
- Removal and evaluation of services

600 Hours at \$125.00 per hour Total cost \$75,000.00 SPIN # 143008185

If you have any questions, please feel free to contact me at 856-691-5111- ext 1158.

Sincerely,

Michael W Vertolli

ComTec Systems

F:\word\letters\mike\sid470 maintenance-678310000481953

ComTec Systems Inc

2658 NW Blvd

Vineland, NJ 08360 USA

Phone: (856) 691-5111 Fax: (856) 696-4666

Quote

No.

Date:

1/9/2004

Prepared for

Atlantic City Board of Education Administration Building 1809 Pacific Ave Atlantic City, NJ 08401 U.S.A.

Prepared by Michael Vertolli

Account No. 2829

Account Phone: (609) 343-7200

Qty.	Item ID	ItemDescription	UOM	Sell	Total
600	805008	WIRE MAINTENANCE	EA	125.000	\$75,000.00
	470# 678310000481953 INDIANA, MLK, RICHMONE	CABLING			

AHachmant

Item Total:

\$ 75,000.00

Total: \$ 75,000.00

Quoted by:

Michael Vertolli

Date: 1/9/2004

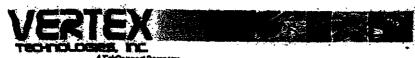
THIS CONTRACT IS BASED ON THE DISTRICT RECEIVING A FUNDING COMMITMENT LETTER FROM THE SLD OF THE THE LINIVERSAL SERVICE ADMINISTRATIVE COMAPNY FOR THE REQUESTED AMOUNT.

Accepted by:

Date: 1-72-04

If equipment is itemized above and does not include labor than ComTec will bill customer for all labor charges associated with its installation at ComTec prevailing rates. If this quote is a Change Order to an Installation, customer is bound by terms. agreed upon in the Equipment Purchase Agreement. Any additional materials approved for installation by the customer which are not listed will be billed as Material used. If quote exceeds \$500.00 a 50% deposit may be required before proceeding with installation. Additional installments may also apply. Customer will sign for time spent on site upon completion of all projects. All equipment remains the property of ComTec Systems, Inc until paid in full.

Attachment 8



Vertex Technologies Inc. 1 Keystone Avenue, Suite 700 Cherry Hill, NJ 08003

Voice: (800) 354-1519 Fax: (856) 834-1111

Atlantic City Public Schools 1809 Pacific Avenue Atlantic City, NJ 08401 Attn: Martin Friedman

Proposal #: ATL01NJ-2000		•	January 6, 2004		
Description Atlantic City E-Rate Bid (Year 7) SLD Form #: 678310000481953 Spin# 143011709	aty	Price	Total		
Agreements/Warranties:					
LAN Maintenance Agreement All Erate eligible Servers, Switches, Wireless AP's, UPS Units Backup drives - On-Site Support (All Buildings)	650	\$85.00	\$55,250.00		
Wire & Cable Maintenance		No Bid	No Bid		
Telephone System Maintenance Agreement		No Bid	No Bid		
·	On-Site	Service Total:	\$55,250.00		
Cisco Switches:		<u></u>			
Cisco Catalyst 2950G 48 Port Switch	8	\$2,809.00	\$22,472.00		
Cisco SmartNET 8X5XNBD for Catalyst 2950g Switch	8	1st YR. FREE	1st YR. FREE		
Equipment:					
Codec plus Cabinet Install, Configuration, Warranty		No Bid	No Bid		
Firewall Server / Router - 2		No Bid	No Bid		
PVBX 165 Nodes		No Bid	No Bid		
Distance Learning Units		No Bid	No Bid		
APC Hardware:	•				
APC SmartUPS 3000VA Rackmount	10	\$1,486.00	\$14,660.00		
	Eq	uipment Total:	\$37,132.00		

Horizontal Cabling (See Attached Scope):

Provide & Install 323 Cat5E Cables Provide & Install 106 Cat5E Cables for Wireless Access

Install a Commscope plenum 4 pair Category 5e white cable

Provide and install (2) Chatsworth 84"x19" open bay racks

Provide and install (16) Siemon 24 port Category 5e patch panels

Provide (323) three hundred and twenty three Category 5e RJ45 7 foot patch cable Provide all necessary labor to test all of the new cables to the appropriate Category 5e standard

Provide a printed copy of the scanner test results

All UTP cables, faceplates and patch panels shall be labeled

429 Total Cat5E Cables

\$58,773,00 429 Cabling Total:



Vertex Technologies Inc. 1 Keystone Avenue, Suite 700 Cherry Hill, NJ 08003 Voice: (800) 354-1519 Fax: (856) 834-1111 Atlantic City Public Schools 1809 Pacific Avenue Atlantic City, NJ 08401 Attn: Martin Friedman

Proposal #: ATL01NJ-2000		January 6, 2004			
Description	Qty	Price	Total		
Atlantic City E-Rate Bld (Year 7)					
SLD Form #: 678310000481953					
Spin# 143011709					
	i.				
Wireless Hardware & Services:					
Hardware/Software: Indoor Wireless:					
Cisco Aironet 1231 - Wireless AP - 802.11b, 802.11g	106	\$670.00	\$71,020.00		
w/Avail Slot For Upgrading to 802.11a - Upgrade Not Included	-				
Cisco 2,2dBi DiPole Access Point Antenna	212	\$17.00	\$3,604.00		
Cisco Aironet 1100 and 1200 Series Power Injector	106	\$47.00	\$4,982.00		
Professional Services:					
Access Point Installation, Configuration, and Testing	1	\$53,000.00	\$53,000.00		
includes Project Management And Documentation		•			
Wireless Technical Training, 1/2 Day On-Site.	1	\$500.00	\$500.00		
RADIUS Server Configuration & Data Entry Assistance	1	\$1,800.00	\$1,800.00		
includes Configuration Of IAS On One Existing Server					
Optional Secondary RADIUS Server Configuration	1	\$600.00	\$600.00		
Hardware/Software: Outdoor Wireless:					
Proxim Tsunami MP.11a Base Station	. 1	\$901.00	\$901.00		
Proxim 20' Low-Loss Antenna Cable	1	\$65.00	\$65.00		
Proxim 0-6Ghz Surge Arrestor	1	\$52.00	\$52.00		
Proxim 10dBi Omni-Directional Outdoor Antenna	1	\$93.00	\$93.00		
Proxim Tsunami MP.11a Subscriber Unit	1	\$485.00	\$485.00		
Proxim 15dBi Window-Mount Antenna	1	\$59.00	\$59.00		
Professional Services:					
Wireless Bridge Installation, Configuration, and Testing	. 1	\$2,000.00	\$2,000.00		
Includes Project Management And Documentation	1	\$240.00	\$240.00		
Installation and Configuration Of Wireless connection in one (1) Remote Trailer.	•	3 240.00	4240.00		
Additional copper cabling would be required to connect to any					
additional trailers and is NOT included in this proposal.		****	A FOR NO		
Wireless Technical Training, 1/2 Day On-Site.	1,	\$500.00	\$500.00		

Prices valid for 30 days

Vertex / TekConnect has a 30 day Return Policy with Original Packing Unopened with all Components

ATL01NJ-2000 E-Rate Cabling Drops (323) & Clsco Switches - EMAIL xis

Wireless Hardware/Services Total:

\$139,901.00



Vertex Technologies Inc. 1 Keystone Avenue, Suite 700 Cherry Hill, NJ 08003 Voice: (800) 354-1519 Fax: (856) 834-1111 Atlantic City Public Schools 1809 Pacific Avenue Atlantic City, NJ 08401 Attn: Martin Friedman

Proposal #: ATL01NJ-2000

Spin# 143011709

January 6, 2004

	Description	Qty	Price	Total
Atlantic City E-Ra	ate Bid (Year 7)			
SLD Form #: 678:	310000481953			

Tuesday, January 06, 2004

On-Site Service Total: \$55,250.00

Equipment Total: \$37;132.00

Cabling Total: \$58,773.00

Wireless Hardware/Services Total: \$139,901.00

E-Rate Project Total: \$291,056.00

Authorized Signature

1 00 .

This Contract is based on the District receiving a Funding Commitment Decision Letter (FCDL) from Schools and Libraries Division (SLD) of the Universal Service Administrative Company (USAC) for the requested amount. If funding is reduced, the school has the option of reducing the scope of the contract accordingly. If for any reason, funding is denied, this agreement would be null and void."

Please Mail and Fax Copy of your Purchase Order to: Vertex Technologies 1 Keystone Ave , Suite 700 Cherry Hill, NJ 08003

Fax: 856-834-1111 Attn: Order Processing

*Product will be shipped, against a PO, as it is available and you agree to make partial payments against the PO within 30 days of receipt. Further, product needs to be paid independent of any services that are to be performed.

If you wish your order to "Ship Complete" Please Notify your account Representative